

WHAT IS CLAIMED IS:

1. An information transmission system comprising:
  - a first station connected to a data source supplying data codes thereto at irregular interval, and including
    - a modulating unit producing a modulated signal on the basis of said data codes through a modulating technique selected from plural candidates and
      - a data converting unit connected to said modulating unit for producing an output signal from said modulated signal;
    - a second station supplied with said output signal of said data converting unit, and including
      - a discriminating unit analyzing said output signal so as to determine said modulating technique employed in said modulating unit and producing a control signal representative of said modulating technique and
        - a demodulating unit supplied with said output signal of said data converting unit, capable of demodulating said output signal through any one of demodulating techniques respectively corresponding to said candidates and responsive to said control signal for reproducing said data codes through the demodulating technique corresponding to said modulating technique; and
      - an information transmitting medium provided between said first station and said second station.
  2. The information transmission system as set forth in claim 1, in which said first station further includes a first data converter inserting synchronous codes

into said irregular intervals for producing a modulating signal so that said modulating unit modulates a carrier signal with said modulating signal for producing said modulated signal, and in which said second station further includes a second data converter connected to said demodulating unit and eliminating said synchronous codes from a demodulated signal supplied from said demodulating unit.

3. The information transmission system as set forth in claim 2, in which said first station further includes a third data converter connected between said data source and said first data converter and replacing the data codes identical in bit string with said synchronous codes with quasi data codes for producing said modulating signal, and in which said second data converter is further operative to restore said data codes from said quasi data codes.
4. The information transmission system as set forth in claim 1, in which said information transmitting medium is a portable memory for storing pieces of data information on said output signal.
5. The information transmission system as set forth in claim 4, in which said portable memory is a magneto-optic disc.
6. The information transmission system as set forth in claim 1, in which said information transmitting medium is a wire communication network.
7. The information transmission system as set forth in claim 1, in which said information transmitting medium is a free space.
8. An information transmission system comprising:

a first station connected to a data source supplying data codes containing pieces of music data information representative of a performance thereto at irregular interval, and including

    a first data converting unit supplying synchronous codes into said irregular intervals for producing a data stream,

    a modulating unit connected to said first data converting unit and modulating a carrier signal with said data stream for producing a modulated signal through a modulating technique selected from plural candidates and

    a second data converting unit connected to said modulating unit for producing an output signal from said modulated signal;

    a second station supplied with said output signal of said second data converting unit, and including

        a discriminating unit analyzing said output signal so as to determine said modulating technique employed in said modulating unit and producing a control signal representative of said modulating technique,

        a demodulating unit supplied with said output signal of said second data converting unit, capable of demodulating said output signal through any one of demodulating techniques respectively corresponding to said candidates and responsive to said control signal for reproducing said data stream through the demodulating technique corresponding to said modulating technique and

        a third data converting unit connected to said demodulating unit and reproducing said data codes from said data stream; and

an information transmitting medium provided between said first station and said second station.

9. The information transmission system as set forth in claim 8, in which said first data converting unit is further operative to replace the data codes identical in bit string with said synchronous codes with quasi data codes for producing said data stream, and in which said third data converting unit is further operative to restore said data codes from said quasi data codes.
10. The information transmission system as set forth in claim 8, in which said information transmitting medium is a portable memory for storing pieces of data information on said output signal.
11. The information transmission system as set forth in claim 10, in which said portable memory is a magneto-optic disc.
12. The information transmission system as set forth in claim 8, in which said information transmitting medium is a wire communication network.
13. The information transmission system as set forth in claim 8, in which said information transmitting medium is a free space.
14. The information transmission system as set forth in claim 8, in which said modulated signal causes said output signal to have edge-to-edge intervals different between said candidates so that said discriminating unit measures the edge-to-edge intervals for determining said modulating technique.
15. The information transmission system as set forth in claim 14, in which said discriminating unit determines that said output signal does not contain

said pieces of music data information when said edge-to-edge intervals are inconsistent with those of said candidates.

16. An information transmission system comprising:

a first station connected to a data source supplying data codes thereto at irregular interval, and including

a modulating unit producing a modulated signal on the basis of said data codes through a modulating technique selected from plural candidates and

a data converting unit connected to said modulating unit for producing an output signal from said modulated signal, said output signal having edge-to-edge intervals different between said candidates;

a second station supplied with said output signal of said data converting unit, and including

a measuring unit for measuring said edge-to-edge intervals of said output signal,

a discriminating unit connected to said measuring unit, determining said modulating technique employed in said modulating unit on the basis of said edge-to-edge intervals and producing a control signal representative of said modulating technique and

a demodulating unit supplied with said output signal of said data converting unit, capable of demodulating said output signal through any one of demodulating techniques respectively corresponding to said candidates and

responsive to said control signal for reproducing said data codes through the demodulating technique corresponding to said modulating technique; and  
an information transmitting medium provided between said first station and said second station.

17. The information transmission system as set forth in claim 16, in which said first station further includes a first data converter inserting synchronous codes into said irregular intervals for producing a modulating signal so that said modulating unit modulates a carrier signal with said modulating signal for producing said modulated signal, and in which said second station further includes a second data converter connected to said demodulating unit and eliminating said synchronous codes from a demodulated signal supplied from said demodulating unit.

18. The information transmission system as set forth in claim 17, in which said first station further includes a third data converter connected between said data source and said first data converter and replacing the data codes identical in bit string with said synchronous codes with quasi data codes for producing said modulating signal, and in which said second data converter is further operative to restore said data codes from said quasi data codes.

19. The information transmission system as set forth in claim 16, in which said information transmitting medium is a portable memory for storing pieces of data information on said output signal.

20. The information transmission system as set forth in claim 19, in which said portable memory is a magneto-optic disc so that said output signal is produced from said modulated signal through a pulse code modulation.

21. The information transmission system as set forth in claim 16, in which said information transmitting medium is a wire communication network.

22. The information transmission system as set forth in claim 16, in which said information transmitting medium is a free space.

23. The information transmission system as set forth in claim 16, in which said data codes contain pieces of music data information representative of a performance.

24. The information transmission system as set forth in claim 23, in which said first station further includes a first data converter inserting synchronous codes into said irregular intervals for producing a modulating signal so that said modulating unit modulates a carrier signal with said modulating signal for producing said modulated signal, and in which said second station further includes a second data converter connected to said demodulating unit and eliminating said synchronous codes from a demodulated signal supplied from said demodulating unit so as to restore said data codes representative of said pieces of music data information.

25. The information transmission system as set forth in claim 24, in which said first station further includes a third data converter connected between said data source and said first data converting unit and replacing the data codes identical in bit string with said synchronous codes with quasi data

codes for producing said modulating signal, and in which said second data converter is further operative to restore said data codes from said quasi data codes.

26. A method for transmitting pieces of information from a first station to a second station, comprising the steps of:

- a) producing a modulated signal from data codes supplied from a data source at irregular intervals through a modulating technique selected from plural candidates;
- b) converting said modulated signal to an output signal;
- c) transmitting said output signal from said first station through an information transmitting medium to said second station;
- d) analyzing said output signal for determining said modulating technique;
- e) selecting a demodulating technique corresponding to said modulating technique from candidates corresponding to said plural candidates; and
- f) reproducing said data codes through said demodulating technique.

27. The method as set forth in claim 26, in which said step a) includes the sub-steps of

- a-1) inserting synchronous codes into said irregular intervals for producing a data stream serving as said modulating signal, and
- a-2) modulating a carrier signal with said data stream for producing said modulated signal.

28. The method as set forth in claim 26, in which said step c) includes the sub-steps of

c-1) producing said output signal through a pulse code modulation from said modulated signal,

c-2) storing said output signal in a magneto-optic disc, and

c-3) conveying said magneto-optic disc from said first station to said second station.

29. The method as set forth in claim 26, in which said step d) includes the sub-steps of

d-1) measuring edge-to-edge intervals of said output signal, and

d-2) comparing said edge-to-edge intervals with plural sorts of edge-to-edge intervals unique to said plural candidates, respectively, for determining said modulating technique.